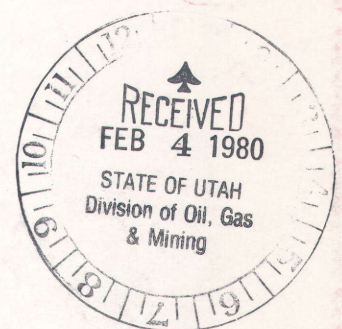


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MINED LAND RECLAMATION

ANNUAL REPORT

OCTOBER 1, 1978 TO OCTOBER 1, 1979



KENNECOTT MINERALS COMPANY
UTAH COPPER DIVISION

6599

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Refer to Record No. 0005 Date 10-1-78
In M/035002, 1979, Incoming
For additional information

0002

Kennecott Minerals Company

A Division of Kennecott Copper Corporation

Utah Copper Division

P.O. Box 6500

Salt Lake City, Utah 84106

801 263-6123

January 30, 1980

Kennecott

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

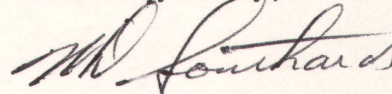
Attention: Mr. Cleon B. Feight
Director

Gentlemen:

Attached is the annual mined land reclamation report for Kennecott Minerals Company, Utah Copper Division. This report summarizes work performed during the period October 1, 1978 to October 1, 1979, as approved on the Notice of Intention to Commence Mining Operations #Act-035-002, August 9, 1976, and subsequent surety agreement.

If you have any questions or comments about this report, please contact me.

Yours very truly,

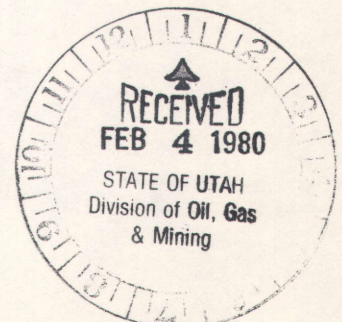


W. D. Southard
Engineering Services Manager

SDT/bja

Attachment

cc: Mr. W. H. Jensen, w/Attachment



MINED LAND RECLAMATION

ANNUAL REPORT

OCTOBER 1, 1978 TO OCTOBER 1, 1979

KENNECOTT MINERALS COMPANY
UTAH COPPER DIVISION

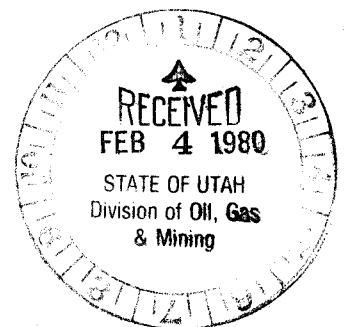


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MINED LAND RECLAMATION ANNUAL REPORT

OCTOBER 1, 1978 TO OCTOBER 1, 1979

KENNECOTT MINERALS COMPANY
UTAH COPPER DIVISION

INTRODUCTION

The following report is submitted to the Utah State Division of Oil, Gas and Mining as prescribed under paragraph (b), Rule M-8, Utah State Mined Land Reclamation Act of 1975. The report summarizes work performed during the period October 1, 1978 to October 1, 1979, as approved on the Notice of Intention to Commence Mining Operations #Act-035-002, August 9, 1976, and subsequent surety agreement.

LOCATION OF OPERATIONS

Under the original notice the operations of the Bingham mine and concentrator were conducted in the following sections of Salt Lake and Tooele Counties:

Sec 7, 8, 9, 10, 11, 17, 18, 19, 20, 21, 30, 31 & 32, T1S, R2W, SLB&M;
Sec 9, 10, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25, 26 & 36, T1S, R3W, SLB&M;
Sec 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 22, 23, 27, 28 & 33, T2S, R2W, SLB&M;
Sec 7, 8, 17, 18 & 19, T3S, R1W, SLB&M;
Sec 8, 13, 14, 15, 16, 17, 18, 19, 20, 21, 24, 25, 28, 29, 30, 31 & 32, T3S, R2W, SLB&M;
Sec 11, 12, 13, 14, 15, 21, 22, 23, 24, 25, 26, 27, 33, 34, 35 & 36, T3S, R3W, SLB&M;
Sec 6 & 7, T4S, R2W, SLB&M;
Sec 1, 2, 3, 11 & 12, T4S, R3W, SLB&M.

Disturbance of the natural terrain during the period was confined to the following sections in Salt Lake County:

Sec 18, 19, 29, 30 & 31, T3S, R2W, SLB&M;
Sec 36, T3S, R3W, SLB&M;
Sec 1, T4S, R3W, SLB&M;
Sec 6, T4S, R2W, SLB&M.

SUMMARY OF MINING & CONCENTRATOR OPERATIONS

During the reporting period, an estimated 122,662,619 short tons of material were moved at the mine. Waste material from the concentrator operations was deposited on the division's existing tailing pond. This resulted in a rise in elevation of the tailing pond of approximately four (4) feet. There was no increase in tailing areas (disturbed acreage) as a result of the concentrator operations.

Although no new acreage was disturbed in the mine area, waste disposal operations disturbed an estimated 102.7 acres of previously undisturbed ground.

These areas are summarized as follows:

1. Area disturbed by rail waste operations	17.4 acres
2. Area disturbed by truck waste operations	<u>85.3</u> acres
Total	102.7 acres

MONTHLY STATUS OF RECLAMATION WORK

TAILING POND BERM & DIKES

<u>April 1979</u>	Seeded and fertilized 150 acres of the tailing dike with 1 ton of seed and 15 tons of fertilizer and the use of rented D-4 Cat.
<u>May 1979</u>	Continued the seeding and fertilizing on the slopes of the tailing dike. Planted 750 poplar trees donated by the USFS on the slopes of the tailing dike.
<u>June 1979</u>	Planted 1,000 fourwing saltbush on the slopes of the tailing dike. Also maintained shrubs on the slopes of the tailing dike.
<u>July 1979</u>	Plant, shrub, and tree maintenance on the tailing dike slopes.
<u>August 1979</u>	Plant, shrub, and tree maintenance on the slopes of the tailing dike.
<u>September 1979</u>	Fertilized and seeded on the slopes of the tailing dike with the regular seed mix and a rented D-3 Cat.

CONCENTRATOR

<u>April 1979</u>	Maintained trees and shrubs around the Bonneville concentrator.
<u>May 1979</u>	Upgraded area around the Toronto Cave. (DUP historical monument.)
<u>July 1979</u>	Plants were maintained at the Toronto Cave. Continued shrub maintenance at concentrator.
<u>August 1979</u>	Plants were maintained at the cave and historical monument as well as shrubs at the concentrator.

MINE

October 1978

Maintained trees at evaporation ponds due to unseasonably dry weather.

March 1979

Forty acres of the evaporation ponds were seeded and fertilized with 600 lbs of seed and 5 tons of fertilizer.

April 1979

Continued seeding and fertilizing at the evaporation ponds. Planted 850 plants on Copper Notch in cooperation with the USFS. Planted 3 large Douglas fir trees at the mine administration building to celebrate Arbor Day.

May 1979

Maintained trees at evaporation ponds.

June 1979

Trees maintained at evaporation ponds.

July 1979

Maintained trees at evaporation ponds during the entire month. Planted 800 fourwing saltbush on the ditch banks at the evaporation ponds. Landscape maintenance at Yosemite truck operation office. Dry weather necessitated consistent plant maintenance throughout the month.

August 1979

Planted 50 Russian olive trees to screen pipe yard in Copperton. Planted lilacs in Copperton to screen large fuel tanks. Planted 207 honey locust trees at evaporation ponds. Maintained trees at evaporation ponds all month. Dry weather necessitated continual plant maintenance.

September 1979

Planted and fertilized 80 acres at the evaporation ponds with a rented D-3 Cat. Spread and incorporated 5,000 tons of lime at the evaporation ponds. Contoured, planted and fertilized in the Castro disturbed area in Butterfield Canyon.

GREENHOUSE

October 1978

Greenhouse maintenance of reclamation plants.

November 1978

Collected seeds and acorns in Coon Canyon to plant in greenhouse. Upgraded the cold storage frames. Maintained greenhouse and prepared for plant production.

December 1978

Planted reclamation shrub material during the entire month of December.

January 1979

Due to unseasonably cold weather in January, maintained and planted shrubs in greenhouse during the entire month.

February 1979

Continued greenhouse plant production of reclamation materials during the entire month.

<u>March 1979</u>	Continued maintenance and production of greenhouse reclamation materials during the month of March.
<u>April 1979</u>	Continued maintenance and production of greenhouse reclamation materials during the month of April.
<u>May 1979</u>	Greenhouse production continued and maintenance of plant materials.
<u>June 1979</u>	Maintenance of reclamation materials in cold frames.
<u>July 1979</u>	Maintenance of reclamation materials in cold frames.
<u>August 1979</u>	Maintenance of reclamation materials in cold frames.
<u>September 1979</u>	Maintenance of reclamation materials in cold frames.

RECLAMATION WORK COST SUMMARY

OCTOBER 1, 1978 TO OCTOBER 1, 1979

	<u>1979</u> \$	<u>De-escalation</u>	<u>1978</u> \$
Material	\$ 17,890	16.3%	\$ 15,383
Labor	87,038	9.0%	79,851
Rental	<u>10,958</u>	15.0%	<u>9,529</u>
Total	\$115,886		\$104,763

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